

Wake County Public School System

Fifth Grade Mathematics Observation Profile
for On-Going Assessment
and End-of-the-Year Evaluation

Purpose:

This profile is designed as a recording document for monitoring an individual student’s progress throughout the school year. The information gathered in this document will be used to plan appropriate instruction, to share student progress with parents and to determine progress report levels. The specific objectives from the *North Carolina Standard Course of Study* are clustered on this profile in four quarters.

DIRECTIONS FOR USE:

- ◆ Student’s performance is noted after observing application of the objective on three occasions. Mark the appropriate level (1, 2, 3, 4) for those items that are assessed each quarter.
- ◆ Mark the objective only after the student has demonstrated performance at any level at least three times.
- ◆ Include supporting documentation such as written samples, photos, electronic portfolio, journal entries, teacher observations, formal assessments, and project evaluations (rubrics).
- ◆ Indicate the student’s summative performance level (1, 2, 3, or 4) at the bottom of each column. This score should reflect the student’s overall performance for the quarter.
- ◆ This profile (along with 2-3 work samples) is to be included with the student’s records in the event of transfer or at the end of the year for the next teacher.

Resources:

Grade Five Mathematics Pacing Guide
Learning and Teaching Guides
Alignment Lessons
NC Indicators

Descriptions of Levels of Performance

Level 1 (Limited Performance)

- Exhibits minimal performance
- Shows very little evidence of conceptual understanding and use of strategies
- Frequently responds with inappropriate answer and/or procedure
- Very often displays misunderstandings
- Infrequently completes tasks appropriately and accurately
- Needs assistance, guidance and modified instruction

Level 2 (Not yet proficient)

- Exhibits inconsistent performance and misunderstandings at times
- Shows some evidence of conceptual understanding
- Has difficulty applying strategies or completing tasks in unfamiliar situations
- Occasionally responds with the appropriate answer or procedure
- Frequently requires teacher guidance
- Demonstrates some Level 3 competencies but is inconsistent

Level 3 (Proficient)

- Exhibits consistent performance
- Shows conceptual understanding
- Applies strategies in most situations
- Responds with appropriate answer or procedure
- Completes tasks accurately
- Needs minimal assistance
- Exhibits fluency and applies learning
- Shows some flexibility in thinking
- Works with confidence
- Recognizes cause and effect relationships
- Applies models and explains concepts

Level 4 (Exceeds Expectations)

- Consistent performance beyond proficiency
- Works independently
- Understands advanced concepts
- Applies strategies creatively
- Analyzes and synthesizes
- Shows confidence and initiative
- Justifies and elaborates responses
- Makes critical judgments
- Make applications and extensions beyond proficiency; applies Level 3 competencies in more challenging situations

Comments:

First Quarter:

Second Quarter:

Third Quarter:

Fourth Quarter:

Grade 5 Observation Profile for On-Going Assessment and End of Year Evaluation

1st Quarter Goals and Objectives	
Number and Operations	
1.01	Develop number sense for rational numbers 0.001 through 999,999.
a	Connect model, number word, and number using a variety of representations.
b	Build understanding of place value (thousandths through hundred thousands).
c	Compare and order rational numbers.
d	Make estimates of rational numbers in appropriate situations.
1.02	Develop fluency in adding and subtracting non-negative rational numbers (halves, fourths, eighths; thirds, sixths, twelfths; fifths, tenths, hundredths, thousandths; mixed numbers).
a	Develop and analyze strategies for adding and subtracting numbers.
b	Estimate sums and differences.
c	Judge the reasonableness of solutions.
1.03	Develop flexibility in solving problems by selecting strategies and using mental computation, estimation, calculators or computers, and paper and pencil.
Measurement	
2.01	Estimate the measure of an object in one system given the measure of that object in another system.
2.02	Identify, estimate, and measure the angles of plane figures using appropriate tools.
Geometry	
3.01	Identify, define, describe, and accurately represent triangles, quadrilaterals, and other polygons.
3.02	Make and test conjectures about polygons involving:
b	Lengths of sides and diagonals.
3.04	Solve problems involving the properties of triangles, quadrilaterals, and other polygons.
b	Lengths of sides and diagonals.
Data Analysis & Probability	
4.01	Collect, organize, analyze, and display data (including stem-and-leaf plots) to solve problems.
Algebra	
5.01	Describe, extend, and generalize numeric and geometric patterns using tables, graphs, words, and symbols.
5.02	Use algebraic expressions, patterns, and one-step equations and inequalities to solve problems.
Overall quarterly performance	

2nd Quarter Goals and Objectives	
Number and Operations	
1.01	Develop number sense for rational numbers 0.001 through 999,999.
a	Connect model, number word, and number using a variety of representations.
b	Build understanding of place value (thousandths through hundred thousands).
c	Compare and order rational numbers.
d	Make estimates of rational numbers in appropriate situations.
1.02	Develop fluency in adding and subtracting non-negative rational numbers (halves, fourths, eighths; thirds, sixths, twelfths; fifths, tenths, hundredths, thousandths; mixed numbers).
a	Develop and analyze strategies for adding and subtracting numbers.
b	Estimate sums and differences.
c	Judge the reasonableness of solutions.
1.03	Develop flexibility in solving problems by selecting strategies and using mental computation, estimation, calculators or computers, and paper and pencil.
Measurement	
2.02	Identify, estimate, and measure the angles of plane figures using appropriate tools.
Geometry	
3.01	Identify, define, describe, and accurately represent triangles, quadrilaterals, and other polygons.
3.02	Make and test conjectures about polygons involving:
a	Sum of the measures of interior angles.
b	Lengths of sides and diagonals.
c	Parallelism and perpendicularity of sides and diagonals.
3.03	Classify plane figures according to types of symmetry (line, rotational).
3.04	Solve problems involving the properties of triangles, quadrilaterals, and other polygons.
a	Sum of the measures of interior angles.
b	Lengths of sides and diagonals.
c	Parallelism and perpendicularity of sides and diagonals.
Data Analysis & Probability	
4.01	Collect, organize, analyze, and display data (including stem-and-leaf plots) to solve problems.
4.02	Compare and contrast different representations of the same data; discuss the effectiveness of each representation.
4.03	Solve problems with data from a single set or multiple sets of data using median, range, and mode.
Algebra	
5.02	Use algebraic expressions, patterns, and one-step equations and inequalities to solve problems.
Overall quarterly performance	

3rd Quarter Goals and Objectives	
Number and Operations	
1.01	Develop number sense for rational numbers 0.001 through 999,999.
a	Connect model, number word, and number using a variety of representations.
b	Build understanding of place value (thousandths through hundred thousands).
c	Compare and order rational numbers.
d	Make estimates of rational numbers in appropriate situations.
1.02	Develop fluency in adding and subtracting non-negative rational numbers (halves, fourths, eighths; thirds, sixths, twelfths; fifths, tenths, hundredths, thousandths; mixed numbers).
a	Develop and analyze strategies for adding and subtracting numbers.
b	Estimate sums and differences.
c	Judge the reasonableness of solutions.
1.03	Develop flexibility in solving problems by selecting strategies and using mental computation, estimation, calculators or computers, and paper and pencil.
Geometry	
3.01	Identify, define, describe, and accurately represent triangles, quadrilaterals, and other polygons.
3.02	Make and test conjectures about polygons involving:
a	Sum of the measures of interior angles.
Data Analysis & Probability	
4.02	Compare and contrast different representations of the same data; discuss the effectiveness of each representation.
4.03	Solve problems with data from a single set or multiple sets of data using median, range, and mode.
Algebra	
5.01	Describe, extend, and generalize numeric and geometric patterns using tables, graphs, words, and symbols.
5.02	Use algebraic expressions, patterns, and one-step equations and inequalities to solve problems.
Overall quarterly performance	

4th Quarter Goals and Objectives	
Number and Operations	
1.03	Develop flexibility in solving problems by selecting strategies and using mental computation, estimation, calculators or computers, and paper and pencil.
Geometry	
3.01	Identify, define, describe, and accurately represent triangles, quadrilaterals, and other polygons.
3.02	Make and test conjectures about polygons involving:
b	Lengths of sides and diagonals.
c	Parallelism and perpendicularity of sides and diagonals.
3.04	Solve problems involving the properties of triangles, quadrilaterals, and other polygons.
a	Sum of the measures of interior angles.
b	Lengths of sides and diagonals.
c	Parallelism and perpendicularity of sides and diagonals.
Data Analysis & Probability	
4.01	Collect, organize, analyze and display data (including stem-and-leaf plots) to solve problems.
Algebra	
5.01	Describe, extend, and generalize numeric and geometric patterns using tables, graphs, words, and symbols.
5.02	Use algebraic expressions, patterns, and one-step equations and inequalities to solve problems.
5.03	Identify, describe, and analyze situations with constant or varying rates of change.
Overall quarterly performance	